# EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S1 | 16 | "4705981" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 15:57 |
| S2 | 2 | (("4705981") or ("5955821")).PN. | US-PGPUB; USPAT | OR | OFF | 2010/09/21 15:59 |
| S3 | 1 | ("6183426").PN. | US-PGPUB; USPAT | OR | OFF | 2010/09/21 16:05 |
| S4 | 1 | ("7001355").PN. | US-PGPUB; USPAT | OR | OFF | 2010/09/21 16:06 |
| S5 | 19 | ("4372296" \| "4787888" \| "5183426" \| "5267985" \| "5383848" \| "5445611" \| "5722397" \| "6066123" \| "6350459").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 16:07 |
| S6 | 1 | ("6576875").PN. | US-PGPUB; USPAT | OR | OFF | 2010/09/21 16:08 |
| S7 | 1 | 10/560032 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 16:09 |
| S8 | 0 | "401245796" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 16:25 |
| S9 | 0 | "401245796A" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 16:25 |
| S10 | 0 | "JP 401245796A" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 16:25 |

| S11 | 1 | "JP401245796A" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 16:27 |
| S12 | 87506 | electrode with (ring or annular) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 16:55 |
| S13 | 2372 | S12 same piezoelectric | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 16:55 |
| S14 | 790 | S13 ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 16:55 |
| S15 | 169054 | (electrode with upper) (electrode with lower) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 16:56 |
| S16 | 133 | S14 S15 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/09/21 16:56 |
| S17 | 389 | piezoelectric same (hole or open$3 or donut or ring) same restrain$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 16:52 |
| S18 | 67 | S17 ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 16:52 |
| S19 | 259 | 2002/055702 or 2001/041856 or "4372295" or "5722397" or "4787888" or "5383848" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:07 |

| S20 | 12 | ("20010041856" \| "20020055702" \| "4372296" \| "4787888" \| "5267985" \| "5383848" \| "5445611" \| "5722397" \| "6066123" \| "6183426" \| "6350459").PN. OR ("7001355").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2010/10/12 18:13 |
|-----|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----|----|-------------------|
| S21 | 98 | S19 ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:29 |
| S22 | 30 | S21 piezoelectric electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:29 |
| S23 | 14890 | piezoelectric same (hole or open$3 or donut or ring or hollow or annular) same electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:34 |
| S24 | 3207 | S23 ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:34 |
| S25 | 427 | S24 tissue | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:34 |
| S26 | 3389 | parasitic with resonance | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:35 |
| S27 | 8 | S25 S26 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:35 |

| S28 | 3 | S23 same S26 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:41 |
| S29 | 18 | S23 S26 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:41 |
| S30 | 509 | S26 with reduc$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:48 |
| S31 | 30 | S30 ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:49 |
| S32 | 1487 | pzt same (hole or open $3 or donut or ring or hollow or annular) same electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:55 |
| S33 | 276 | S32 ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:55 |
| S34 | 0 | S33 S26 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:55 |
| S35 | 14 | S33 parasitic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:55 |
| S36 | 73 | S32 tissue | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 18:56 |

| S37 | 14933 | piezoelectric same (hole or open$3 or donut or doughnut or ring or hollow or annular or toroid$3) same electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 19:17 |
|-----|-------|------|------|-----|-----|-----|
| S38 | 18 | S26 S37 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 19:17 |
| S39 | 430 | S37 ultraso$7 tissue | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 19:17 |
| S40 | 215 | S37 ultraso$7 (skin or derm$3 or epiderm$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/12 19:19 |
| S41 | 53 | transducer same (parasitic with resonance) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/14 16:23 |
| S42 | 23 | (parasitic with resonance) ultraso$7 (skin or derm$3 or epiderm$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/14 17:25 |
| S43 | 2 | (("4698058") or ("4173725")).PN. | US-PGPUB; USPAT | OR | OFF | 2010/10/14 18:06 |
| S44 | 6 | (restrain$3 with vibrat$3 with center) ultraso$7 (skin or derm$3 or epiderm$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/14 18:11 |
| S45 | 739 | (electrode with slit) same (piezoelectric or pzt) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/14 18:15 |

| S46 | 130 | S45 ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/14 18:16 |
| S47 | 9 | S46 (skin or derm$3 or epider$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/14 18:16 |
| S48 | 84 | S46 (disc or hole or opening or donut or ring or hollow or annular or doughnut) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/14 18:33 |
| S49 | 1270 | (310/366).CCLS. | US-PGPUB; USPAT | OR | OFF | 2010/10/14 19:07 |
| S50 | 533 | (310/369).CCLS. | US-PGPUB; USPAT | OR | OFF | 2010/10/14 19:07 |
| S51 | 76 | S49 S50 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/14 19:08 |
| S52 | 12869 | cosmetic ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 14:15 |
| S53 | 7406 | S52 skin | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 14:15 |
| S54 | 1410 | S53 electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 14:16 |
| S55 | 513 | S54 transducer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 14:24 |

| S56 | 288 | S55 probe | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 14:24 |
|-----|-----|-----------|------|-----|-----|---------|
| S57 | 159 | resonance S56 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 14:56 |
| S58 | 533 | (310/369).CCLS. | US-PGPUB; USPAT | OR | OFF | 2010/10/18 15:10 |
| S59 | 1270 | (310/366).CCLS. | US-PGPUB; USPAT | OR | OFF | 2010/10/18 15:11 |
| S60 | 325 | S58 electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 15:25 |
| S61 | 75 | restrict$3 with radiat$3 with oscillat$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 18:58 |
| S62 | 1 | S54 S61 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 18:58 |
| S63 | 26 | S61 electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 18:58 |
| S64 | 0 | (S59 or S58) S61 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 19:02 |
| S65 | 116 | (S59 or S58) ((restrict$3 or prevent$3 or unwant$3 or undesir$4) with (oscillat$3 or propagat$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 19:05 |

| S66 | 6748 | ((restrict$3 or prevent$3 or unwant$3 or undesir $4) with (oscillat$3 or propagat$3)) ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 19:05 |
|-----|------|------|------|-----|-----|-----|
| S67 | 868 | S66 (electrode with (upper or lower or top or bottom)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 19:06 |
| S68 | 113 | S67 (skin or derm$2 or epiderm$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 19:06 |
| S69 | 11942 | ring with (transducer or piezoelectic or pzt) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 21:25 |
| S70 | 1069 | S69 (ring with electrode) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 21:25 |
| S71 | 480 | S70 ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 21:26 |
| S72 | 67 | S71 skin | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 21:26 |
| S73 | 6281 | annular with (transducer or piezoelectic or pzt) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 21:45 |
| S74 | 606 | S73 same electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 21:45 |

| S75 | 273 | S74 ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 21:45 |
| S76 | 11 | (restrain$3 with vibrat$4 with center) ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 21:54 |
| S77 | 1520 | ultraso$7 (ring with electrode) skin | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 21:58 |
| S78 | 64 | S77 horn | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 21:58 |
| S79 | 76 | S54 ((annular or ring or toroidal or toroid or donut or doughnut) with (transducer or piezoelectric or pzt or ceramic)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/18 22:06 |
| S80 | 1243 | ultraso$7 (electrode same piezoelectric) (solder) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 16:01 |
| S81 | 114 | S80 (solder with lead with wire) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 16:01 |
| S82 | 14 | S81 skin | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 16:01 |
| S83 | 2753 | (horn same ultraso$7) (horn same (hole or opening)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 16:33 |

| S84 | 154 | S83 skin | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 16:33 |
| S85 | 45 | S84 electrode piezoelectric | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 16:33 |
| S86 | 8 | "2002055702" or "2001041856" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 16:35 |
| S87 | 1 | "200255702" or "200141856" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 16:36 |
| S88 | 4 | (("4372296") or ("5722397") or ("4787888") or ("5383848")).PN. | US-PGPUB; USPAT | OR | OFF | 2010/10/21 16:37 |
| S89 | 13 | (restrain$3 with vibrat $3) same (horn with (open$3 or hole)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 16:44 |
| S90 | 62 | (restrain$3 same vibrat $3 same horn) ultraso$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 16:47 |
| S91 | 6662 | ultraso$7 with skin | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 17:18 |
| S92 | 449 | S91 horn | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 17:24 |

| S93 | 317 | S92 tissue | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 17:40 |
| S94 | 11465 | horn with (opening or hole or notch or divot or dent) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 17:40 |
| S95 | 20 | S93 S94 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/10/21 17:40 |

**EAST Search History (Interference)**

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**10/23/2010 7:23:53 PM**
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